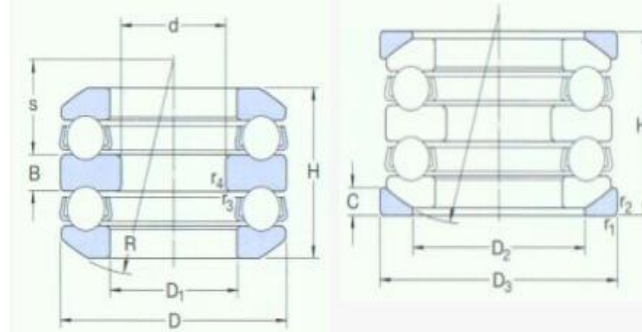


**Features of Thrust Ball Bearing**

1. Single direction thrust ball bearings: consist of two washers with raceways and balls guided by a cage. Washers have flat seating surfaces, and that is why they must be supported so that all balls can be evenly loaded. Bearings carry the axial load only in one direction. They are not able to carry radial forces.
2. Double direction thrust ball bearings: have two cages with balls between the central shaft washer and two housing washers with flat seating surfaces. The shaft washer has raceways on both sides and is fixed on the journal. Bearings are able to carry only axial forces in both directions.

**Double way thrust ball bearing-aligning seat rings**



Motion(shanghai)Industrial Development Co.,Ltd

Principal dimensions			Basic load ratings		Pu	Min Loading A	Speed ratings		Bearing + Seat rings	Designation		Dimensions													Abutment and fillet dimensions		
(mm)			KN				rpm			Bearing	Housing	mm													mm		
d	D	H <sub>1</sub>	dyc Cr	stc Cor			Speed Ratings	Limiting Speed				d	D1 ~	D <sub>2</sub>	D <sub>3</sub>	H	B	C	R	s	r <sub>1,2</sub> Min	r <sub>3,4</sub> Min	d <sub>a</sub>	Da Max	r <sub>a</sub> Max	r <sub>a</sub> Max	
30	62	42	35.1	73.5	2.7	0.028	4000	5600	0.53	54207	U207	30	37	48	65	37.73	8	7	50	21	1	0.3	35	48	1	0.3	
30	68	44	46.8	106	4	0.058	3800	5300	0.63	54208	U208	30	42	55	72	38.6	9	7	56	25	1	0.6	40	55	1	0.6	
30	68	52	49.4	96.5	3.55	0.048	3400	4800	0.85	54307	U307	30	37	52	72	47.19	10	7.5	56	21	1	0.3	35	52	1	0.3	
30	78	59	61.8	122	4.5	0.077	3000	4300	1.17	54308	U308	30	42	60	82	54.1	12	8.5	64	23.5	1	0.6	40	60	1	0.6	
35	73	45	39	86.5	3.2	0.038	3600	5000	0.78	54209	U209	35	47	60	78	39.6	9	7.5	56	23	1	0.6	45	60	1	0.6	
35	85	62	76.1	153	5.6	0.12	2800	4000	1.60	54309	U309	35	47	65	90	56.2	12	10	64	21	1	0.6	45	65	1	0.6	
35	100	86	130	265	9.8	0.37	2200	3000	3.00	54409	U409	35	47	72	105	78.9	17	12.5	80	23.5	1.1	0.6	45	72	1	0.6	
40	95	70	88.4	190	6.95	0.19	2600	3600	2.30	54310	U310	40	52	72	100	64.7	14	11	72	23	1.1	0.6	50	72	1	0.6	
40	110	92	159	340	12.5	0.60	2000	2800	4.45	54410	U410	40	52	80	115	83.2	18	14	90	30	1.5	0.6	50	80	1.5	0.6	
45	90	55	61.8	146	5.4	0.11	2800	4000	1.30	54211	U211	45	57	72	95	49.6	10	9	72	32.5	1	0.6	55	72	1	0.6	
50	110	78	101	224	8.3	0.26	2200	3000	2.90	54312	U312	50	62	85	115	70.7	15	11.5	90	36.5	1.1	0.6	60	85	1	0.6	
65	140	95	159	390	13.7	0.79	1700	2400	0.57	54316	U316	65	82	110	145	86.1	18	18	112	45.5	1.5	1	80	110	1.5	1	
65	170	140	270	670	22.4	2.3	1200	1700	1.40	54416M	U416	65	83	125	175	128.5	27	22	125	30.5	2.1	1	80	125	2	1	
70	150	105	190	465	16	1.1	1600	2200	7.95	54317	U317	70	88	115	155	95.2	19	17.5	112	39	1.5	1	85	115	1.5	1	
80	210	176	371	1060	31.5	5.8	950	1400	29.0	54420M	U420	80	103	155	220	159.9	33	27	160	43.5	3	1.1	100	155	2.5	1	